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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,756	09/30/2004	Kazuyasu Fujiwara	042751	8145
38834 7590 11/01/2007 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036			EXAMINER WILLS, MONIQUE M	
			ART UNIT	PAPER NUMBER
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				-
			MAIL DATE	DELIVERY MODE
		•	11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

• .	Application No.	Applicant(s)			
	10/509,756	FUJIWARA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Monique M. Wills	1795			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	*				
·— ·	action is non-final.				
·—	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.		·			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) ☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) acce		Examiner.			
Applicant may not request that any objection to the	•				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
•	z-	·			
Attachment(s)	🗖	(27.2.440)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F				
Paper No(s)/Mail Date	6) Other:				

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#### **DETAILED ACTION**

### Response to Amendment

This Office Action is responsive to the Amendment filed August 16, 2007. The rejection of claims 1-4 under 35 U.S.C. 103(a) as being unpatentable over Onuki et al. U.S. Pub. 2005/0118512 is overcome. However, claims 1-4 are ejected under35 U.S.C. 103(a) as being unpatentable over Mori JP 2003-308875.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mori JP 2003-308875.

Mori teaches a nonaqueous secondary battery 1 comprising a nonaqueous electrolyte containing at least one type selected from a sultone compound, cyclic sulfate, and vinylene carbonate and at least one type selected from an alkyl benzene derivative having tertiary carbon neighboring phenyl groups, a cycloalkyl benzene

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derivative, and a biphenyl derivative. The battery also includes a positive electrode 3 and a negative electrode 4. See paragraph 7.

Mori does not expressly disclose the vinylene carbonate or cycloakylbenzene ratios of 0.5 to 10 parts by mass per t00 parts by mass of the solvent.

However, it would have been obvious to one of ordinary skill in the art at the time the instant invention was made to employ the instant solvents in the amount of 0.5 to 10 parts by mass per t00 parts by mass of the solvent, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). The skilled artisan recognizes that the solvent concentration directly effects ion conductivity between the electrodes.

## Response to Arguments

Applicant's arguments, with respect to Onuki have been fully considered and are persuasive. The rejection has been withdrawn.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Monique Wills whose telephone number is (571) 272-

1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00

pm.

If attempts to reach Examiner by telephone are unsuccessful, the Examiner's

supervisor, Patrick Ryan, may be reached at 571-272-1292. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

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direct.uspto.gov.Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MW

1/10/05

MARK RUTHKOSKY PRIMARY EXAMINER

10.29.0